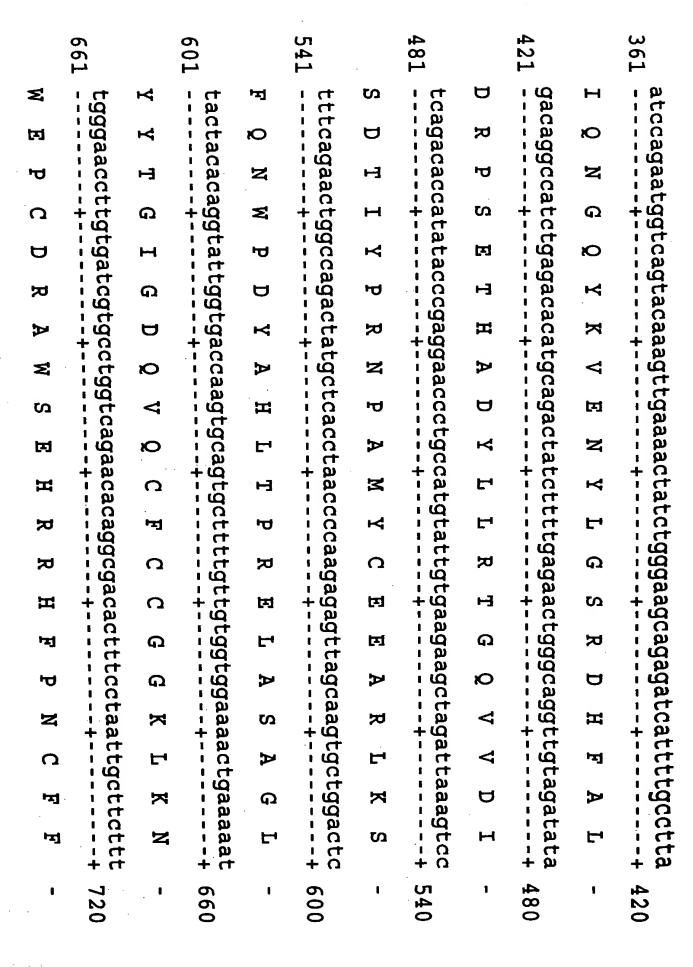


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o ,	aaaacttgtgtacctgcagacatcaataaggaagaagaagtttgtagaagagtttaata	ga -+ 120
щ	KTCVPADINKEEEFVEEFNR	•
12.	ttaaaaacttttgctaattttccaagtggtagtcctgtttcagcatcaacactggcacga 21+	ga -+ 180
'n	LKTFANFPSGSPVSASTLAR	ı
18	gcagggtttctttatactggtgaaggagataccgtgcggtgctttagttgtcatgcagct	ct -+ 240
Ψ	AGFLYTGEGDTVRCFSCHAA	1
24	gtagatagatggcaatatggagactcagcagttggaagacacaggaaagtatccccaaat	at -+ 300
m	V D R W Q Y G D S A V G R H R K V S P N	ı
3 0 1	tgcagatttatcaacggcttttatcttgaaaatagtgccacgcagtctacaaattctg)gt -+ 360
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Fig. 1 (page 1 of 7)



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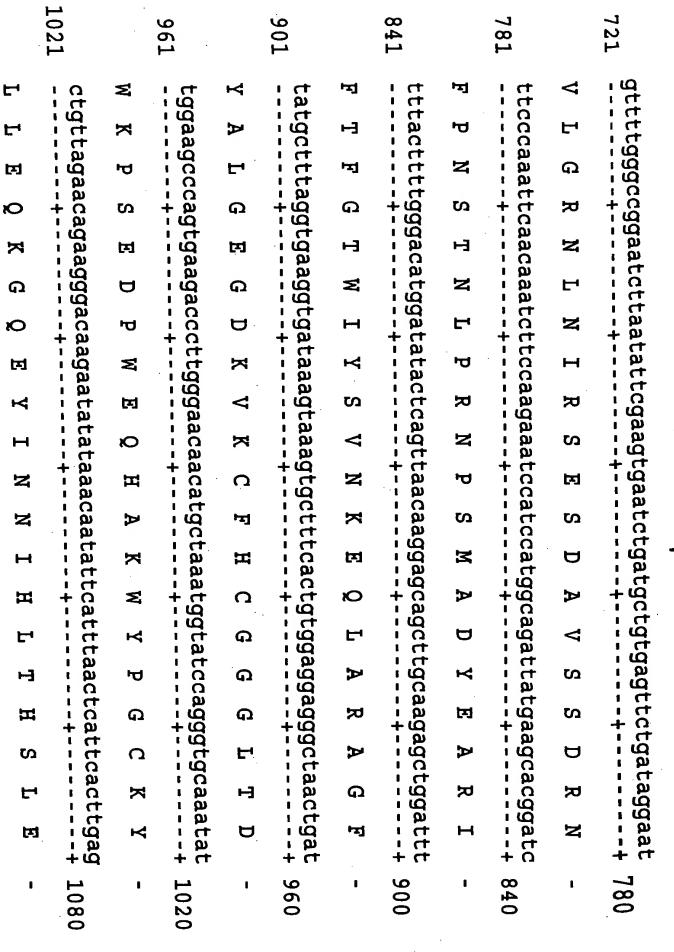
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Fig. 1 (page 2 of 7)

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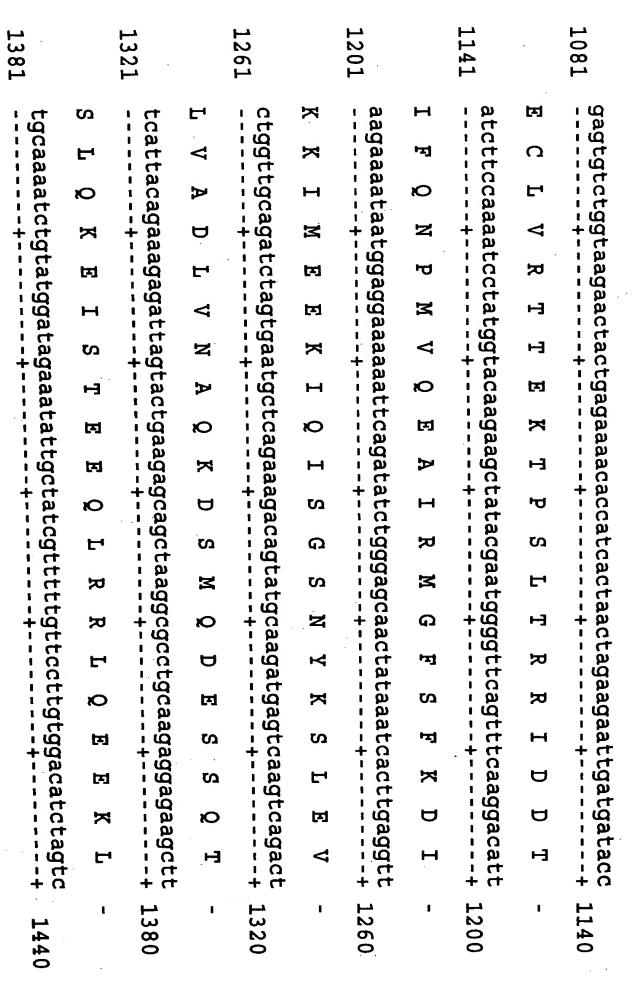
Fig. 1 (page 3 of 7)

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Fig. 1 (page 4 of 7)

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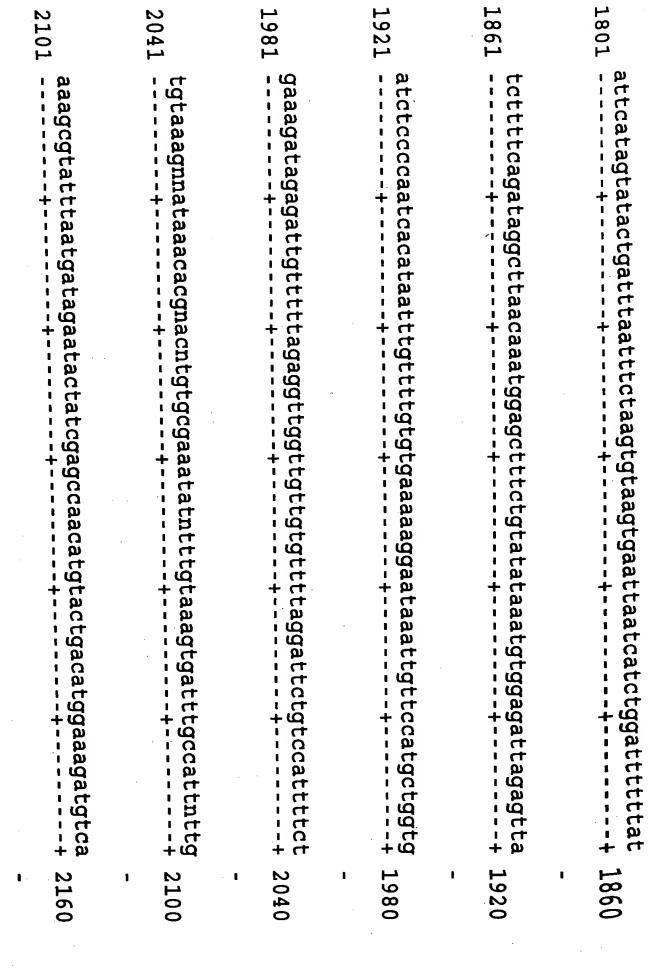
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Fig. 1 (page 5 of 7)

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Fig. 1 (page 6 of 7)

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2521
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                                                         gtnctcttcctagggagctgtnttgtttcccacccaccacccttccctctgaacaaatgc
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Fig. 1 (page 7 of 7)

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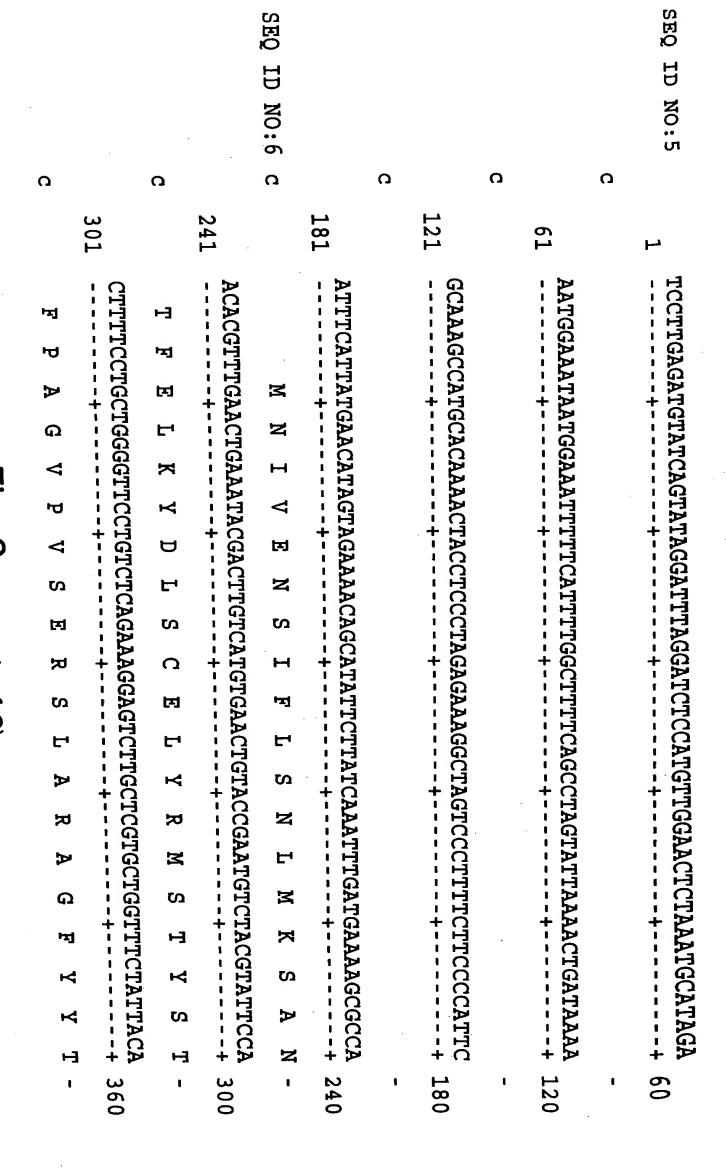
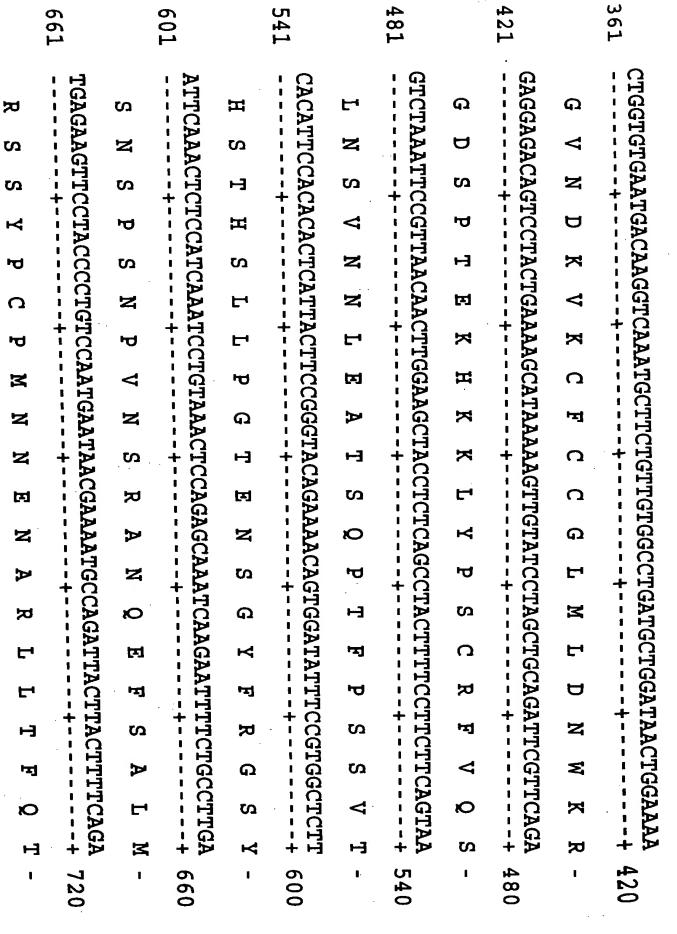


Fig. 2 (page 1 of 8)



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Fig. 2 (page 2 of 8)

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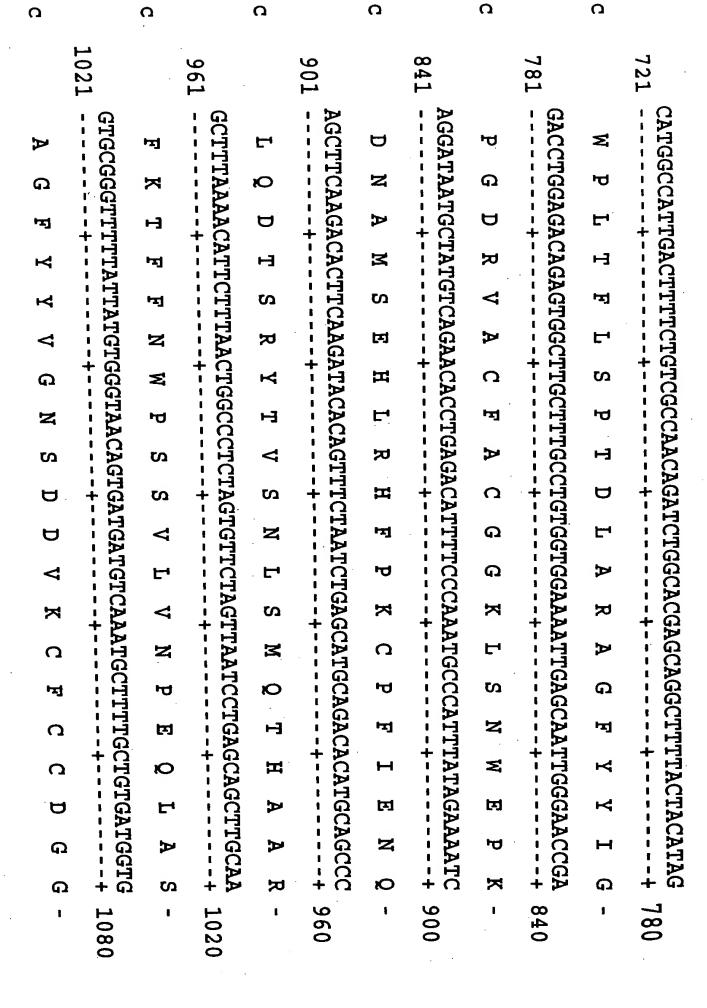


Fig. 2 (page 3 of 8)

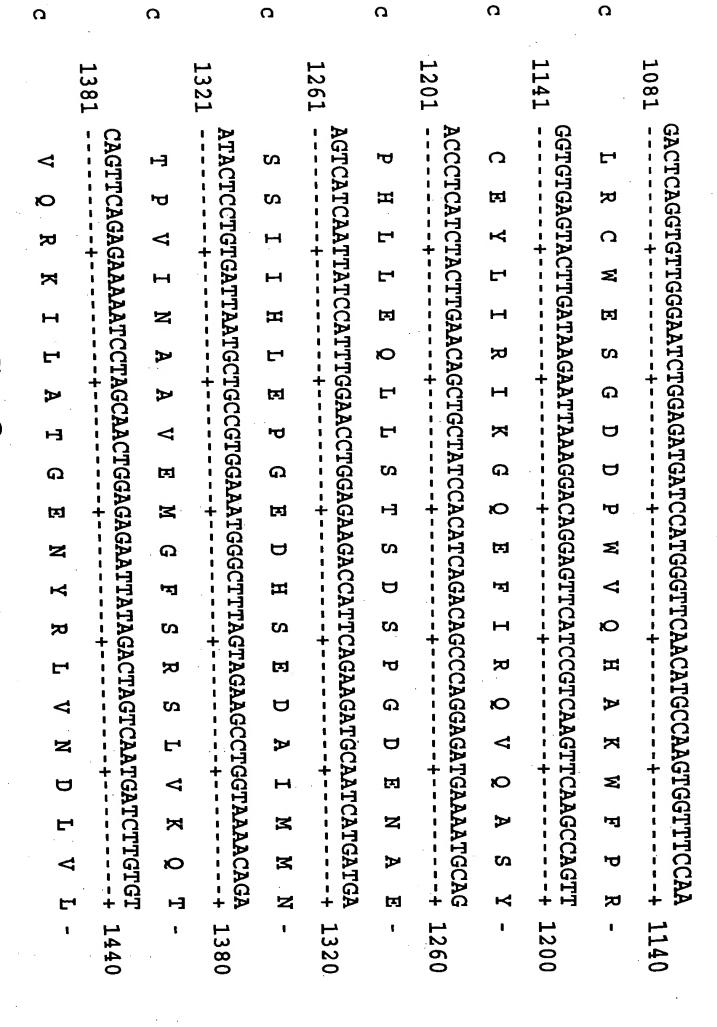
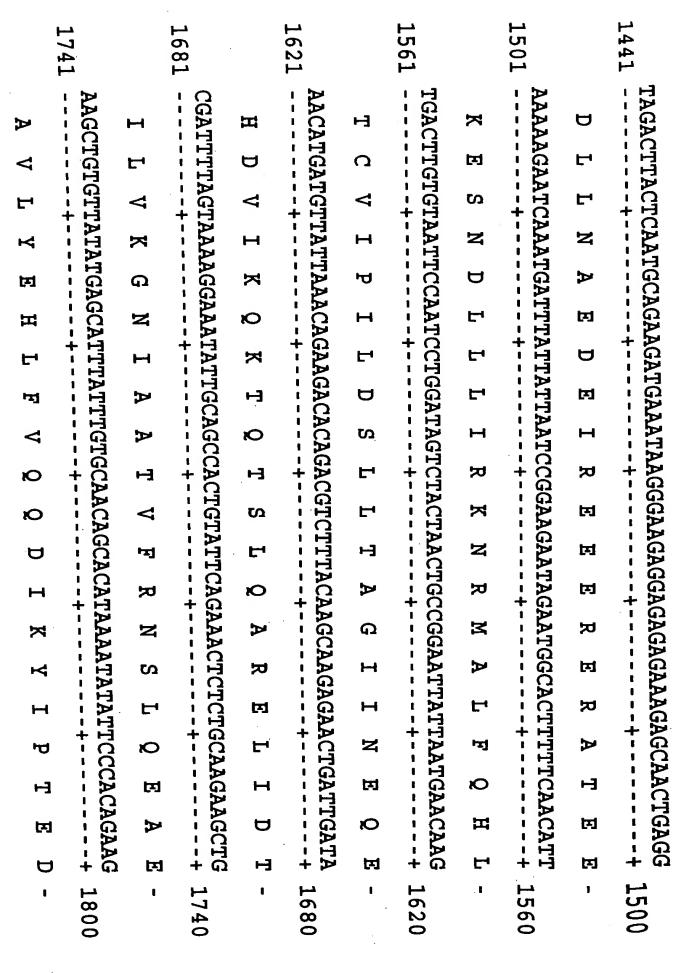


Fig. 2 (page 4 of 8)



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Fig. 2 (page 5 of 8)

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1801	ATGTTTCAGATCTACCAGTGGAAGAACAATTGCGGAGACTACCAGAAGAAAGA	1860
	VSDLPVEEQLRRLPEERTCK	
1861	AAGTGTGTATGGACAAAGAAGTGTCCATAGTGTTTATTCCTTGTGGTCATCTAGTAGTAT	1920
	V C M D K E V S I V F I P C G H L V V C	. 1
1921	GCAAAGATTGTGCTCCTTCTTTAAGAAAGTGTCCTATTTGTAGGAGTACAATCAAGGGTA	1980
	K D C A P S L R K C P I C R S T I K G T	
1981	CAGTTCGTACATTTCTTTCATGAAGAAGAACCAAAACATCGTCTAAACTTTAGAATTAAT	2040
	VRTFLS*	•
2041	TTATTAAATGTATTATAACTTTAACTTTTATCCTAATTTTGGTTTCCTTAAAATTTTTTATT	2100
2101	TATTTACAACTCAAAAAACATTGTTTTGTGTAACATATTTATATATA	2160

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Fig. 2 (page 6 of 8)

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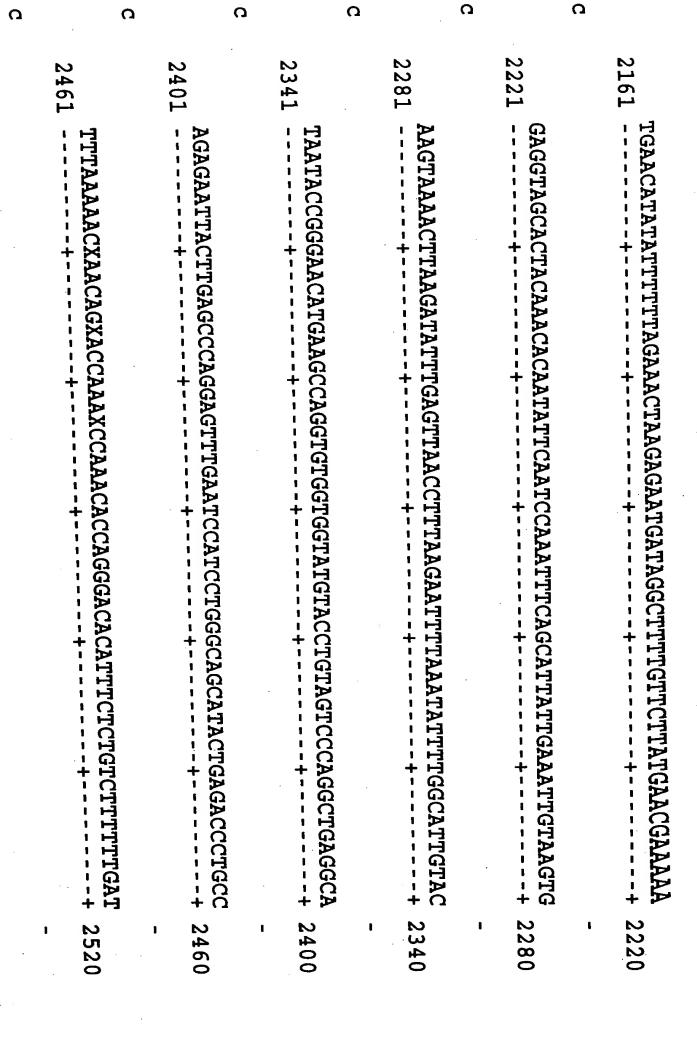
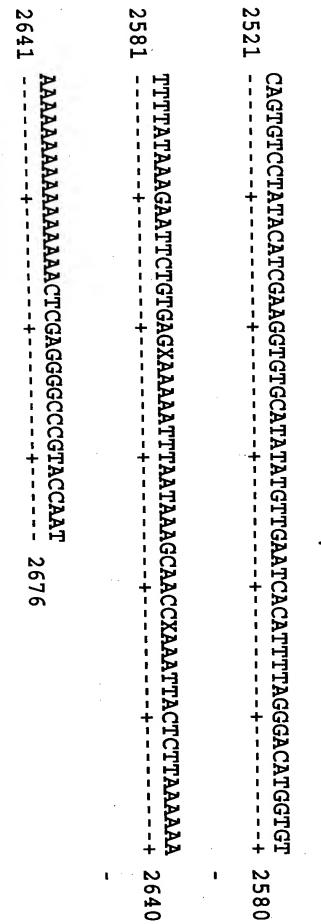


Fig. 2 (page 7 of 8)



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Fig. 2 (page 8 of 8)

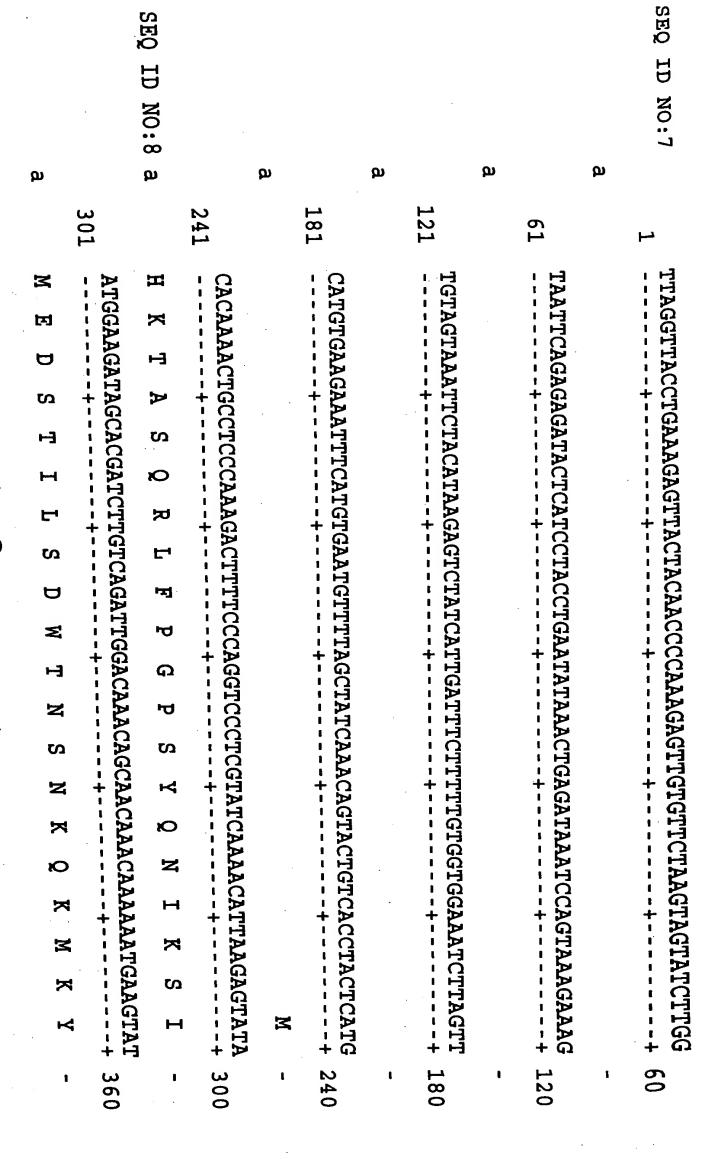
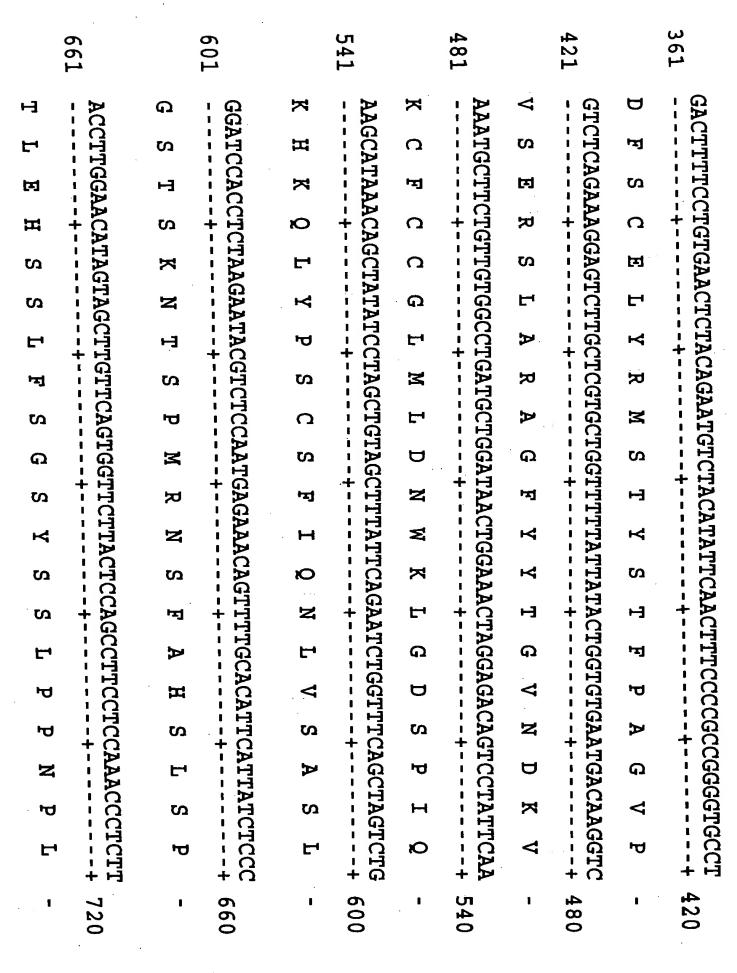


Fig. 3 (page 1 of 7)



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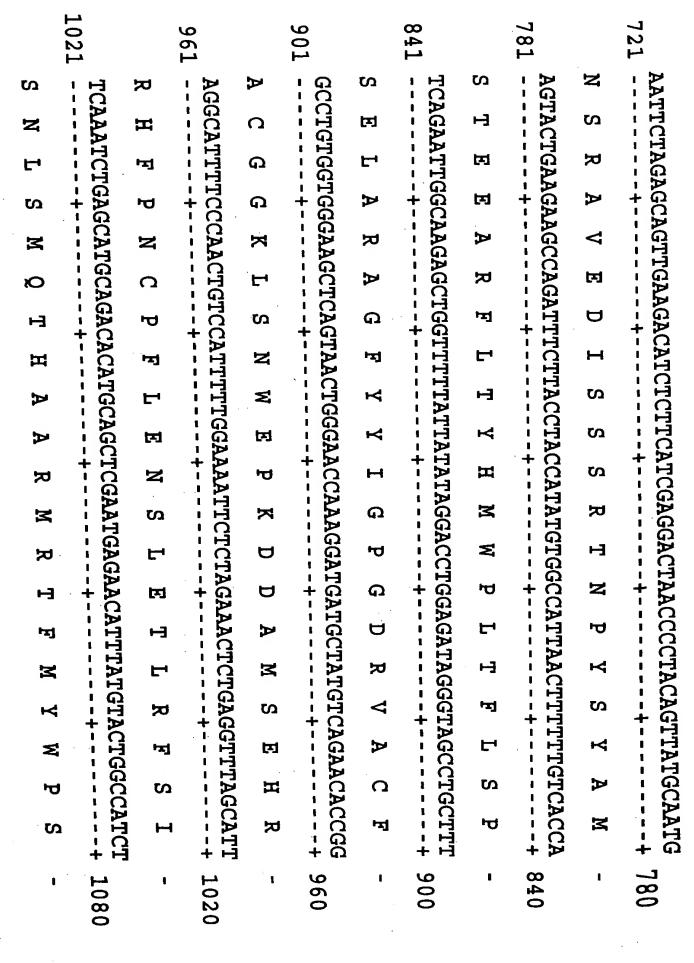
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Fig. 3 (page 2 of 7)



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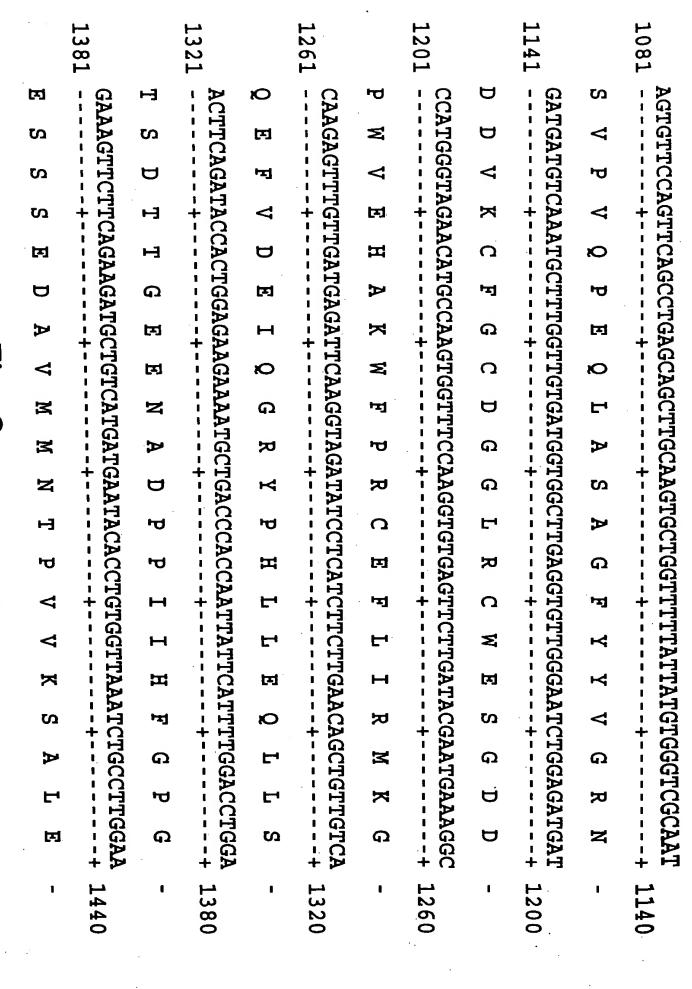
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Fig. 3 (page 3 of 7)

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Fig. 3 (page 4 of 7)

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1441	ATGGGCTTTAATAGAGACCTGGTGAAACAACAGTTCTAAGTAAAATCCTGACAACTGGA41+++	A + 1500
	MGFNRDLVKQTVLSKILTTG	1
1501	GAGAACTATAAAACAGTTAATGATATTGTGTCAGCACTTCTTAATGCTGAAGATGAAAAA 01+++++	A + 1560
	ENYKTVNDIVSALLNAEDEK	ı
1561	AGAGAAGAGGAGAAGGAAAAACAAGCTGAAGAAATGGCATCAGATGATTTGTCATTAA	TT -+ 1620
	REEEKEKQAEEMAS DDLSLI	1
1621	CGGAAGAACAGAATGGCTCTCTTTCAACAATTGACATGTGTGCTTCCTATCCTGGATA	AT -+ 1680
	RKNRMALFQQLTCVLPILDN	
1681	CTTTTAAAGGCCAATGTAATTAATAAACAGGAACATGATATTATTAAACAAAAAACAC	AG -+ 1740
	LLKANVINKQEHDIIKQKTQ	1
1741	ATACCTTTACAAGCGAGAGAACTGATTGATACCATTTGGGTTAAAGGAAATGCTGCGGCC	+ 1800
	IPLQARELIDTIWVKGNAAA	• .

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Fig. 3 (page 5 of 7)

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2160	ATAGTCTATATTTTAACCTGCATAAAAAGGTCTTTAAAATATTGTTGAACACTTGAAGCC	TGA	CACT	AAC.	TTG	TTG	ATA	AAA	TTT	GIC	AAG	AAA	CAT	CTG	AAC.	1	년 2 년	A 년 년	AGT.	ΑT
•			*	Ø	۲	' দ্য	H	×	⋖	G H	Q	×	H	H	മ	×	C	Н	ש	C
2100	TGCCCTATTTGCAGGGGTATAATCAAGGGTACTGTTCGTACATTTCTCTCTTTAAAGAAAA	AAG	TTA	CTCT	ICI	ATT	TAC	TCG	TGT	GTAC	AGGG	CAA	TAAT	TAT.	 GGG	CAG	TTG	TAT	 CCC	TG
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2040	GTATTTATTCCTTGTGGTCATCTGGTAGTATGCCAGGAATGTGCCCCCTTCTCTAAGAAAA	AAG	TCT	+ TTC	CCC	TGC(AATG	GGA	CCA	GTAGTATGC	AGT	GGT	TCT	TCATCT	TGG	TTG	TTCCI	TAT'	ATT	- GT
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1980	GGACAAAGAAGTTTCTGTT	TIC	AGT	CAAAGAAGTT	CAA	GGA(GTAT	TTGAGGAGGTTGCAAGAAGAACGAACTTGTAAAGTGTGTAT	AGT	TAAAGT	TTG	AACT	ACG	AGAACGA	AGA	GCA:	GTT	GAG	GAG	- H
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1920	GATAAGAATATGAAGTATATTCCAACAGAAGATGTTTCAGGTCTGTCACTGGAAGAACAA	AGA	GGA	ACT	GIC.	ICI(AGG	TIC	TGT	AGATG +	AGA	AAC	TCC	TAT	GTA	GAA(ATATGA	AGAA'	TAA	GA
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1860	GTATAAGAACTTATTTGTG	ATT	CHT	GAACT	TAAG	GTA:	ATT	AACATCTTCAAAAACTGTCTAAAAGAAATTGACTCTACATT	CIC	TGA	AAT	AGA	AAA	ICI	CIG	AAA(CAA:	CTT	CAT	AA

Fig. 3 (page 6 of 7)

	Fig. 3 (page 7 of 7)	
2580	TTTTTCTCTTATTTCCCCCCCTAGTTTGTGAGAAACATCTCAATAAAGTGCTTTAAAAAG	2521
2520	CATCAGAGTTATGGTGCCGAATTGTCTTTTGGTGCTTTTCACTTGTGTTTTAAAATAAGGA	2461
2460	AAAGCTTTGAAXACTAAATTATAGTGTAGAAAAGAACTGGAAACCAGGAACTCTGGAGTT	2401
2400	AGTAGCGTCXCTGCTTGTTATGCATCATTTCAGGAGTTACTGGATTTGTTGTTCTTTCAG	2341
2340	TATTTACAAGGGAAGATTTATGTTTGGTGAACTATATTAGTATGTAT	2281
2280	TTTGGTACTAATAATCTTGTTTCTGAAAAGATGGTATCATATATTTAATCTTAATCTGTT	2221
2220	ATCTAAAGTAAAAAGGGAATTATGAGTTTTTTCAATTAGTAACATTCATGTTCTAGTCTGC	2161

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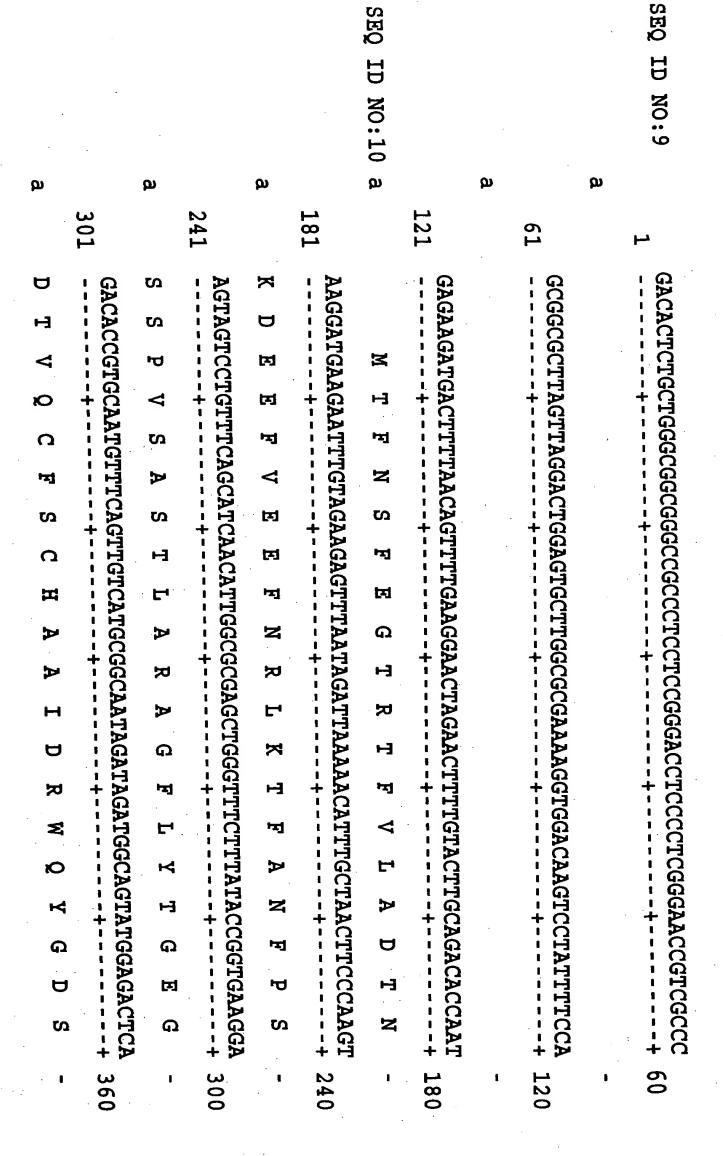
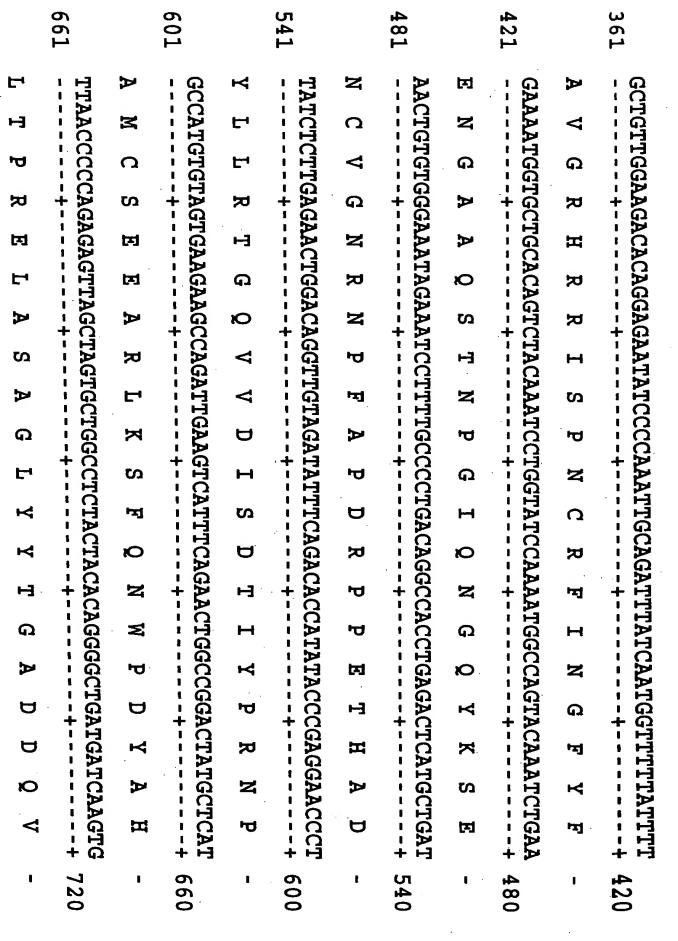


Fig. 4 (page 1 of 6)



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Fig. 4 (page 2 of 6)

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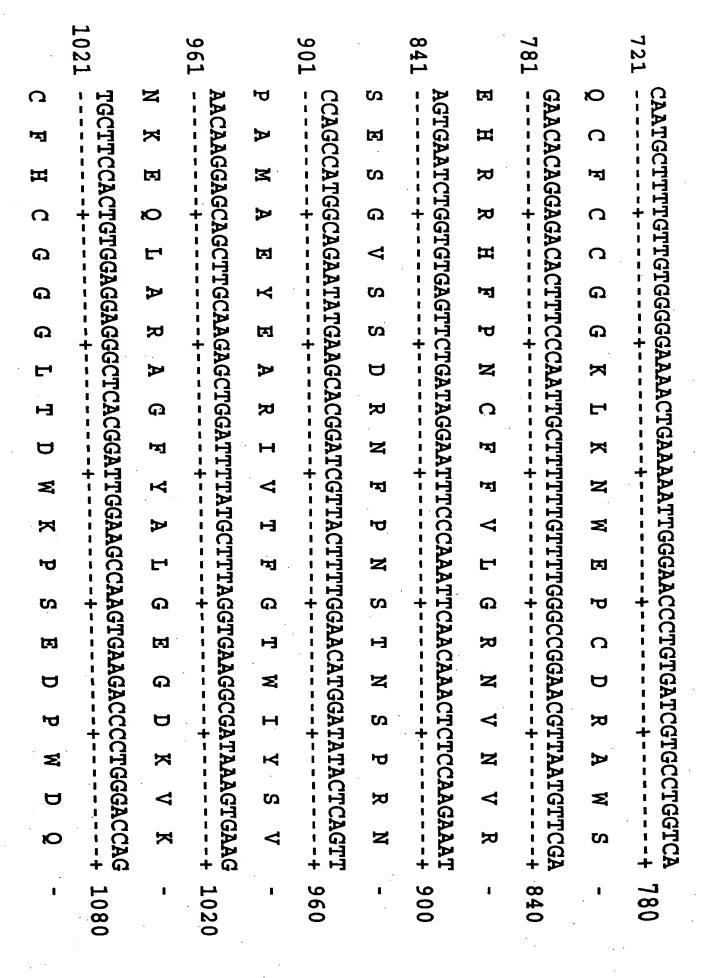


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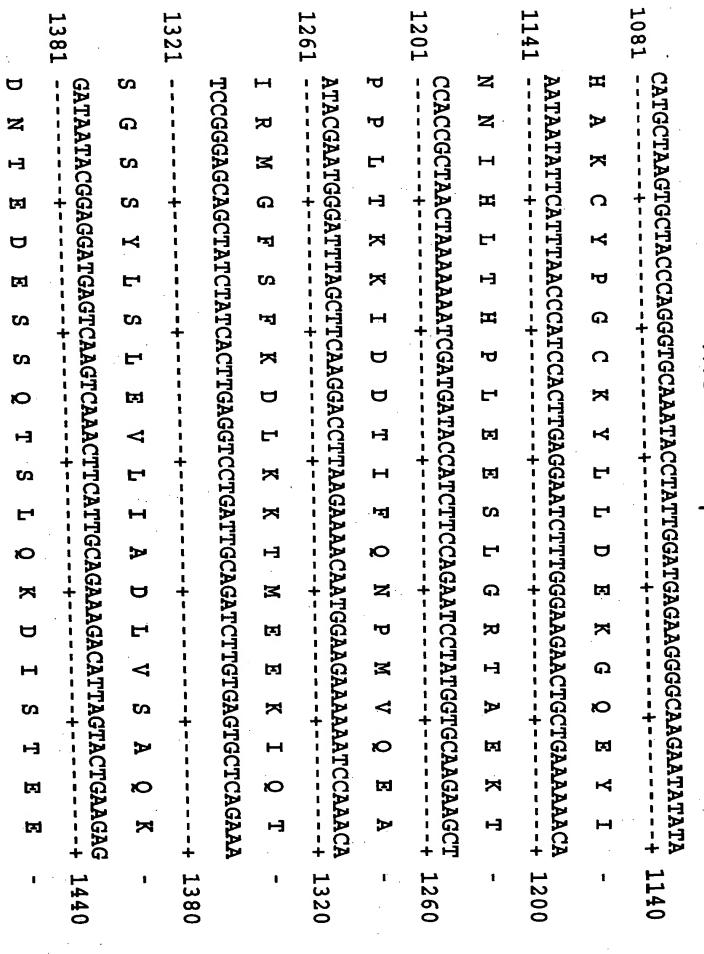
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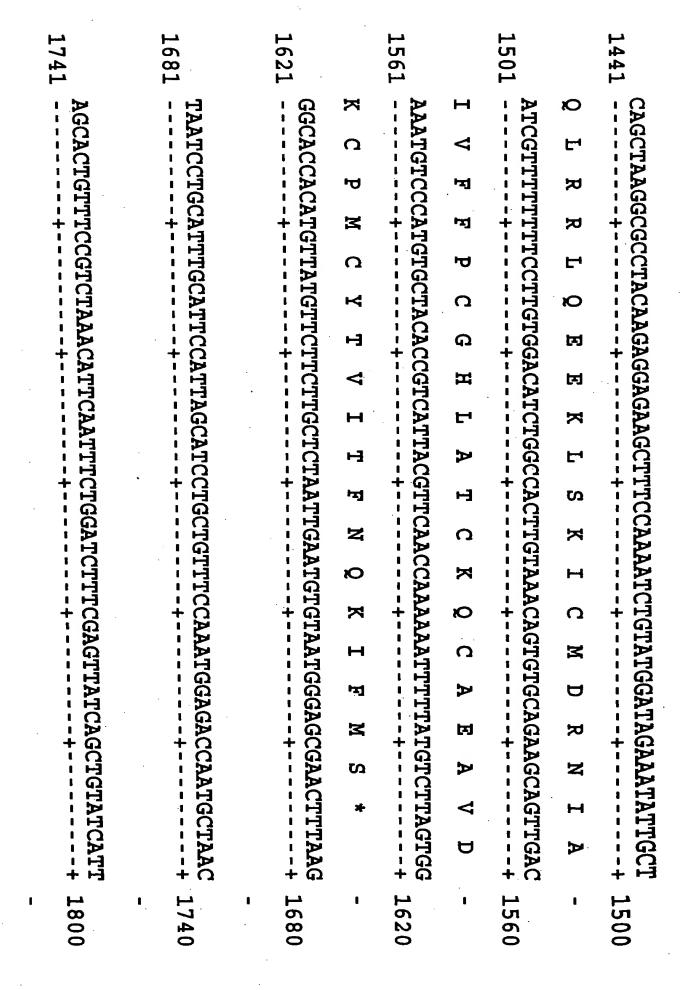
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Fig. 4 (page 4 of 6)

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Fig. 4 (page 5 of 6)

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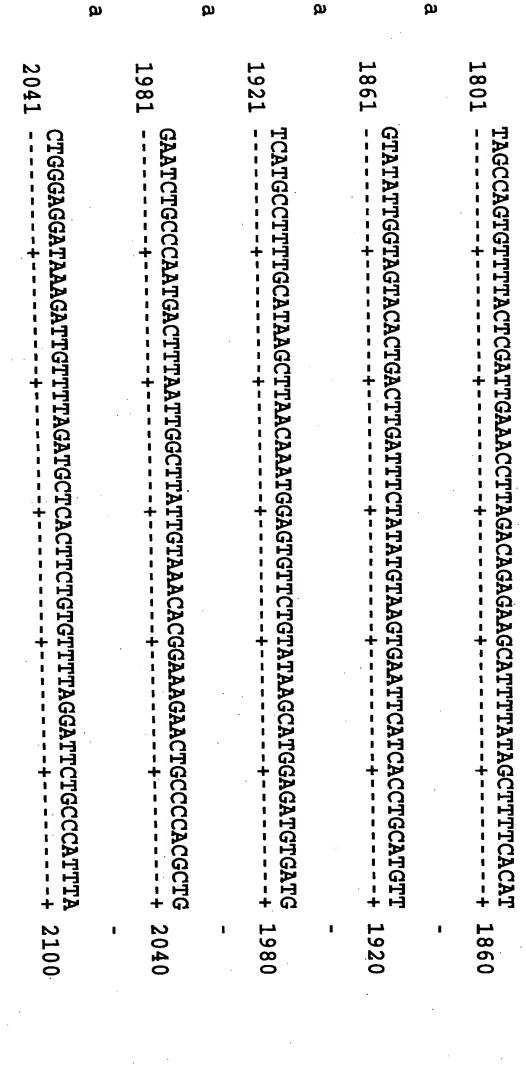


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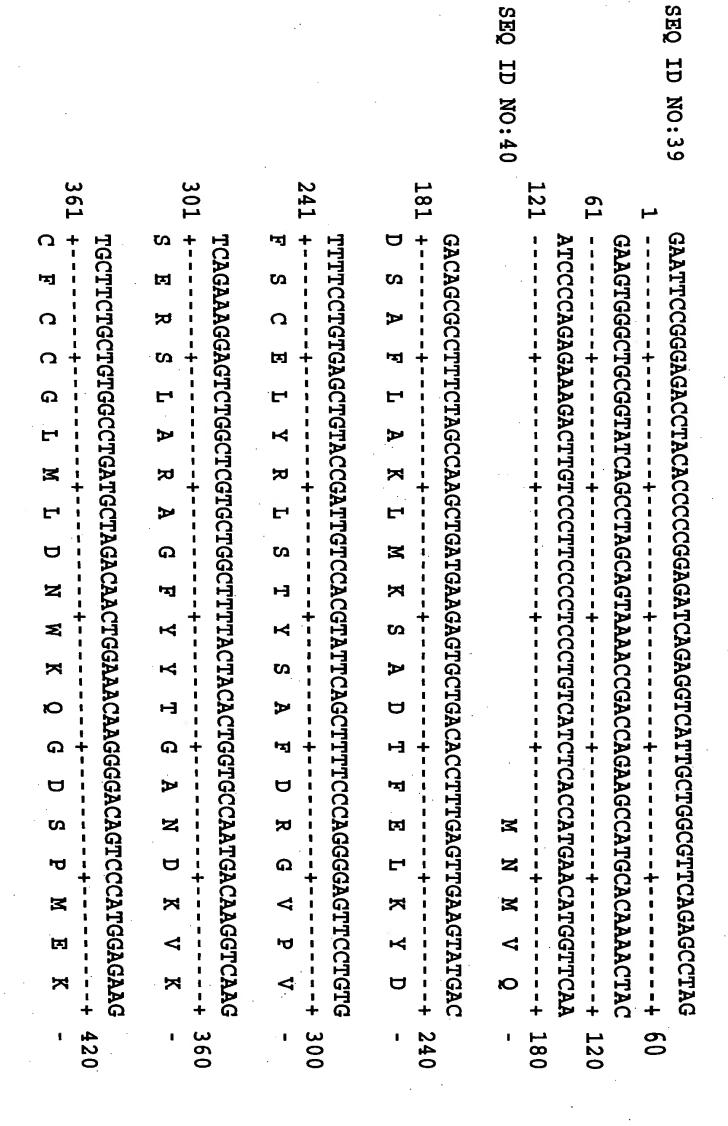


Fig. 5 (page 1 of 6)

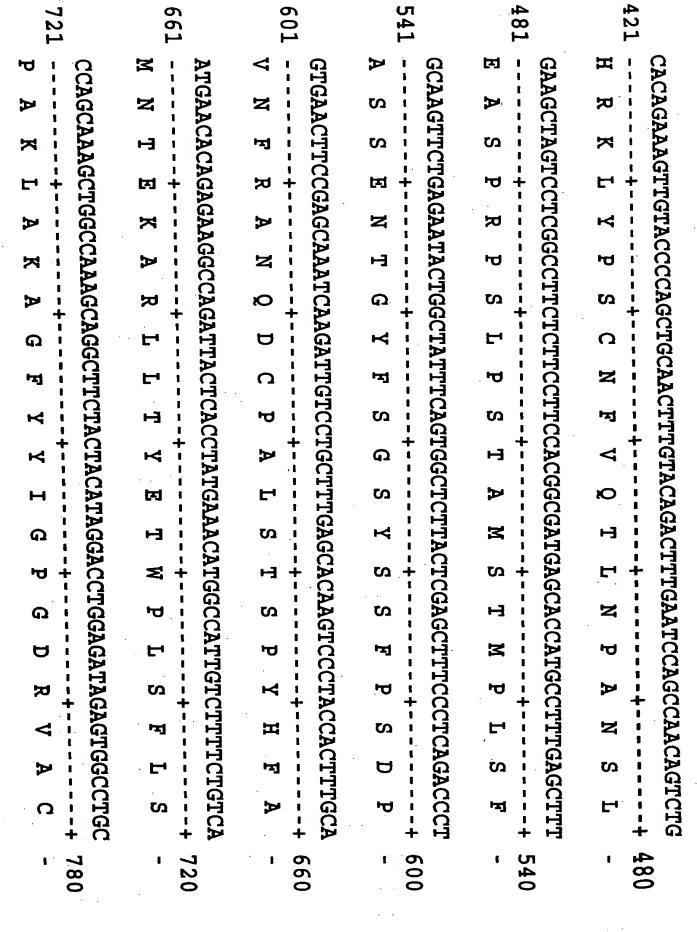
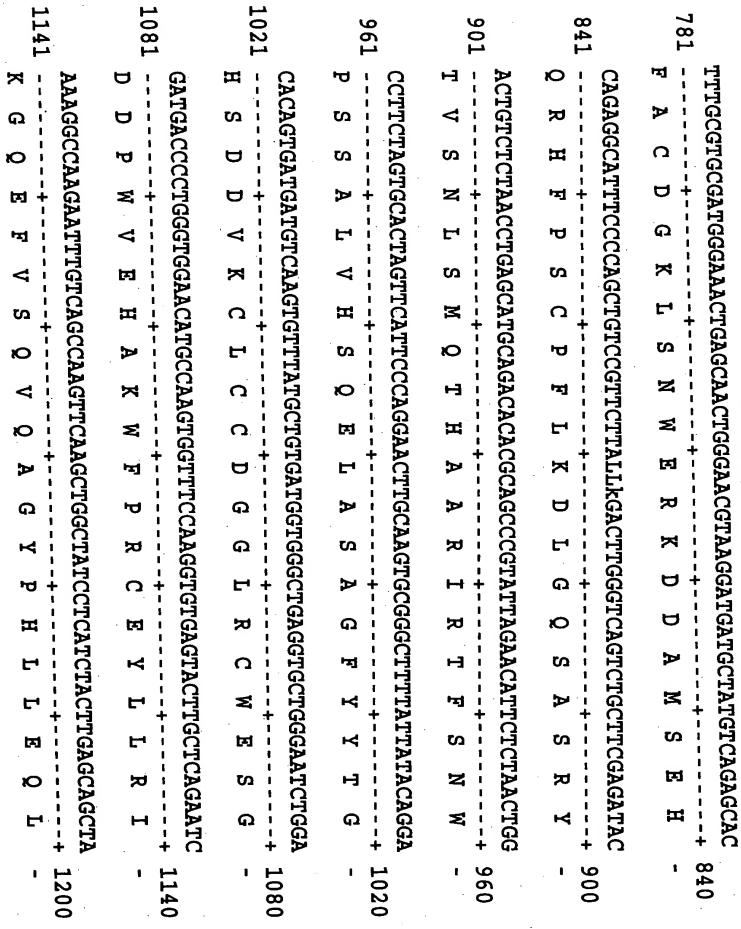


Fig. 5 (page 2 of 6)



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Fig. 5 (page 3 of 6)

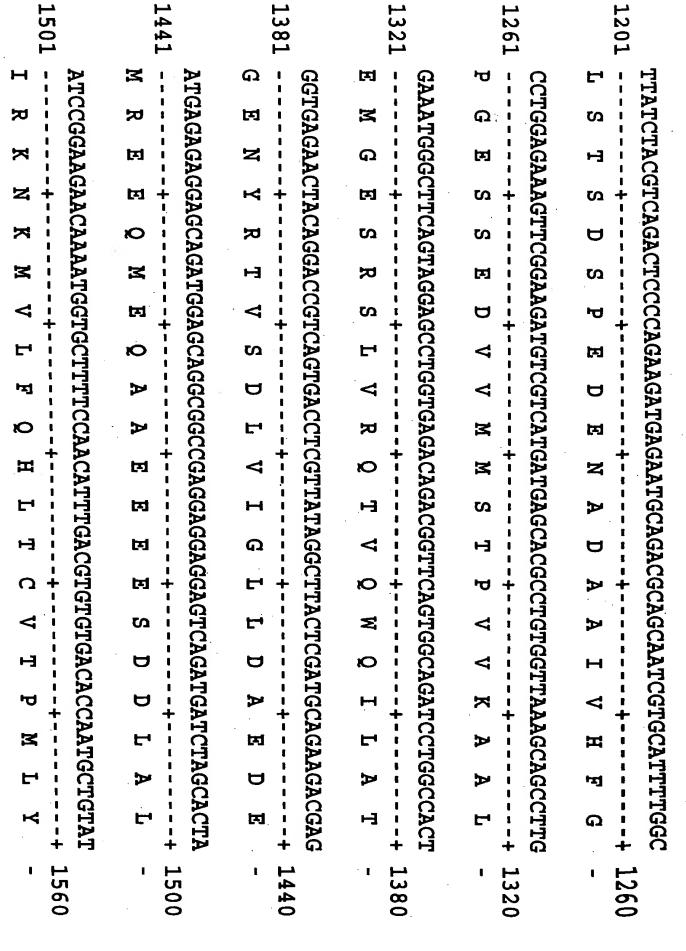


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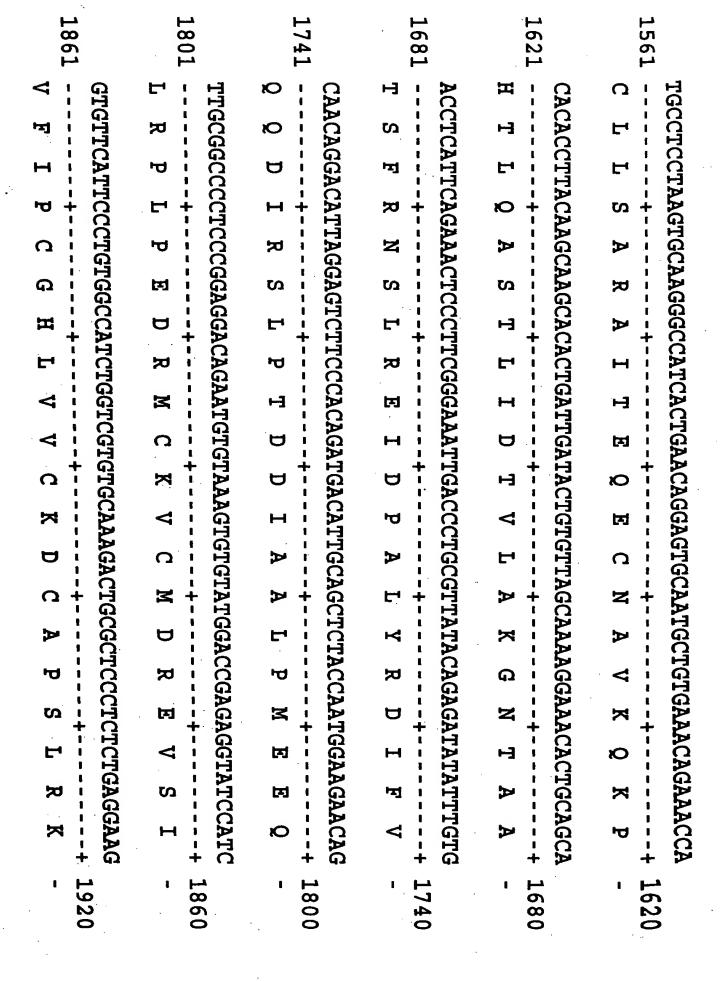


Fig. 5 (page 5 of 6)

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0) 1	CCCATCTGTAGAGGGACCATCAAGGGCACAGTGCGCACATTTCTCTCCTGAACA	õ
.941	1	Č
, ,	TGTCACTCCCAGTTCCAT	5
78.F	TCGGAACTTGAGGCCAGCCTGGATAGCACGAGACACCGCCAAACKCACAAATATAAACAT	5 6
041	GAAAAACTTTTGTCTGAAGTCAAGAATGAATGAATTACTTATATAATAATTTTAATTGGT	Ö
101	TTCCTTAAAAGTGCTATTTGTTCCCAACTCAGAAAATTGTTTTCTGTAAACATATTTACA	0
161	TGTCATGAGAGAGGGTTT	
221	TCAGCATATA	5 6
281	ACGCTAAATAAGGCGGAAAGATTTGG	Š Š
3 4 L	TCTTTCCTGTCCAATGTATACTCTTCAGACTAATGACCTCTTCC	<u></u>
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Fig. 5 (page 6 of 6)

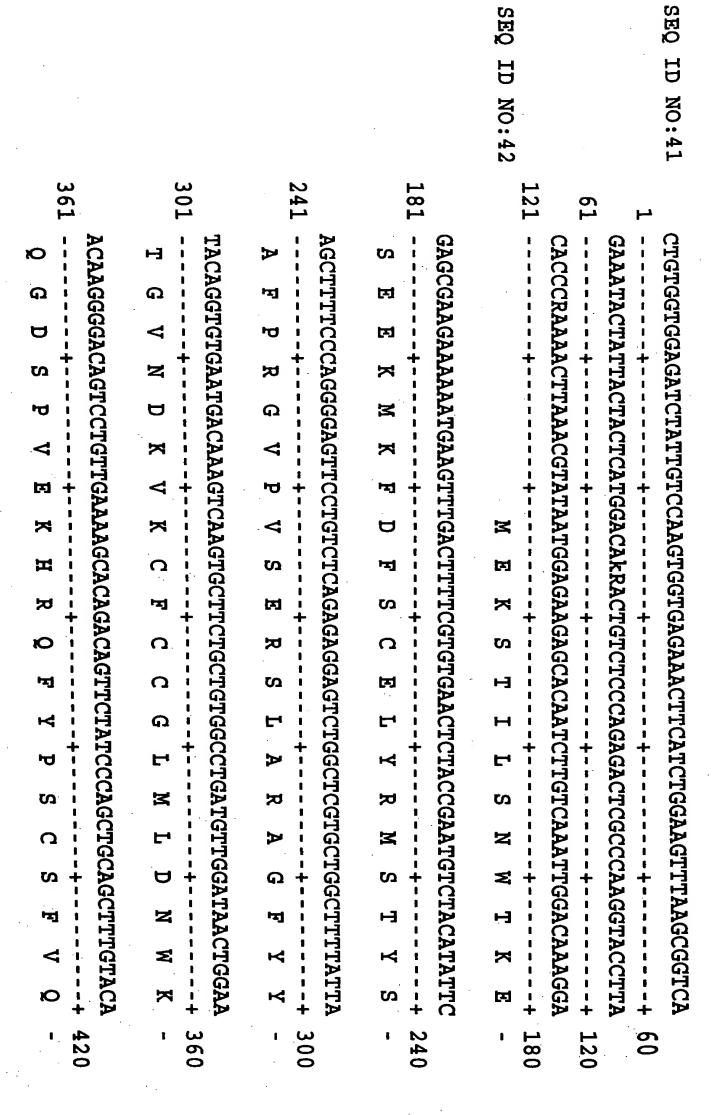


Fig. 6 (page 1 of 6)

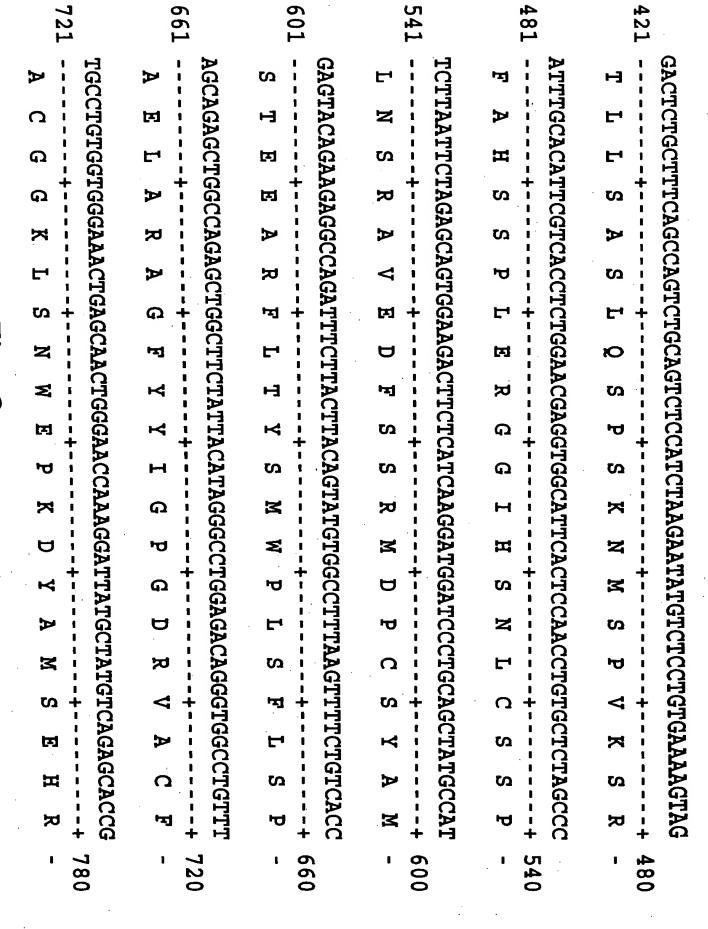


Fig. 6 (page 2 of 6)

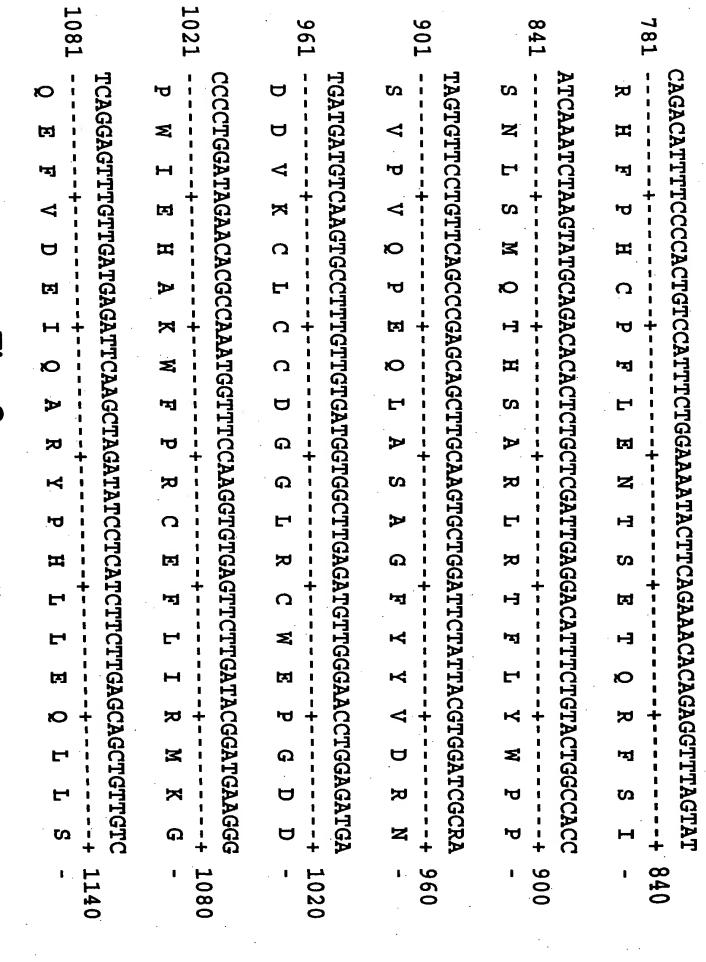


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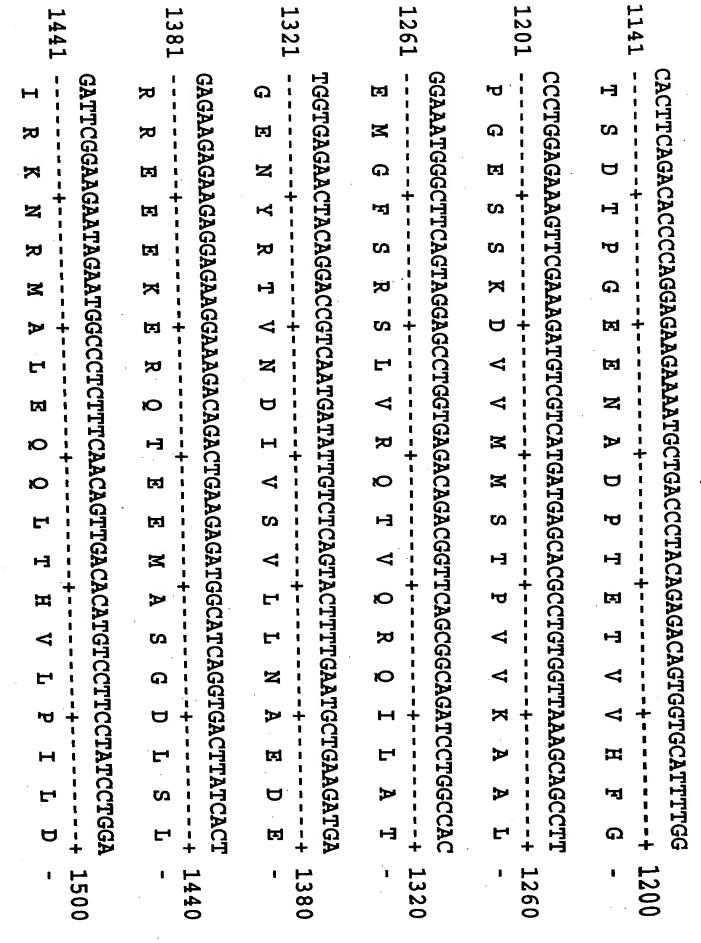


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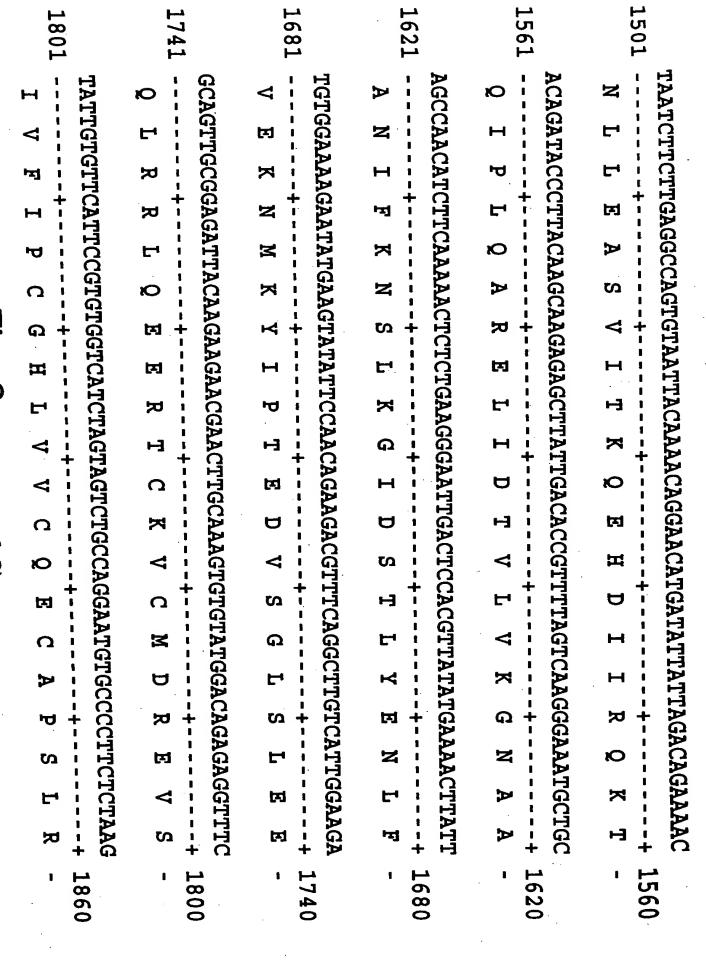


Fig. 6 (page 5 of 6)

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) \ 2	GAAGTGCCCCATCTGCAGGGGGACAATCAAGGGGGACTGTGCGCACATTTCTCTCATGAGT)
, 66 T	KCPICRGTIKGTVRTFLS*	-
))	GAAGAATGGTCTGAAAGTATTGTTGGACATCAGAAGCTGTCAGAACAAAGAATGAACTAC	1080
.921	TGATTTCAGCTCTTCAGCAGGACATTCTACTCTCTTTCAAGATTAGTAATCTTGCTTTAT	3040
1 0 L	GAAGGGTAGCATTGTATATTTAAGCTTAGTCTGTTGCAAGGGAAGGTCTATGCTGTTGAG) (
041	CTACAGGACTGTGTCTCCTGTTCCAGAGCAGGAGTTGGGATGCTTGCT	3150
101	CTTCTTGGGATTTGGGAATTTGGGAAAGCTTTGGAATCCAGTGATGTGGAGCTCAGAAA	2220
161	TCCTGGAACCAGTGACTCTGGTACTCAGTAGATAGGGTACCCTGTACTTCTTGGTGCTTT	2280
	TCCAGTCTGGGAAATAAGGAGGAATCTGCTGCTGGTAAAAATTTTGCTGGATGTGAGAAAT	2340
78T	AGATGAAAGTGTTTCGGGTGGGGGGCGTGCATCAGTGTAGTGTGTGCAGGGATGTATGCAG	2400
34 ₁	GCCAAACACTGTGTAG	
401	2416	

Fig. 6 (page 6 of 6)

Alignment of BIR (Baculoviral IAP Repeats) Domains

diap	-xiap	p lp1, hiap2	Baculovirus Cp_jap Op_jap Human
Drosophilia IAP gene, not clearly a homologue of xiap or hiap	mouse homologue of human xiap gene	IAP on X chromosome two different human IAP genes	Cydia pomonella Orgyia pseudotsugata
		<u>.</u>	<u>Π</u>

note on consensus: which are present in 14 of the 19 BIR sequences at each position. Capitalized residues are those that are in the consensus sequence The consensus line represents amino acids or very similar amino acids

Ses Ses SES SES SES SEQ SEC SEQ NO:28 NO:29 NO:2 NO:30 NO:25 NO:24 NO:23 NO:22 NO:21 NO:20 NO:19 NO:18 NO:17 NO:16 NO:15 NO:27 NO:26 NO:14 NO:11 Op_iap-2 Cp_iap-2 diap-3 Op_iap-1 Cp_iap-1 diap-2 m-xiap-2 xiap-3 m-xiap-3 xiap-1 m-xiap-1 diap-1 xiap-2 hiap2-1 hiap2-3 hiap1-3 hiap2-2 hiap1-2 hiap1-1 vdaRLrTFtd eaaRvksFhn eeaRLksFqn elyRMsTYst elyRMsTYst efnRLkTFan eanRLvTFkd eevRLnTFek eaaRLrTFae yeaRifTFgt yeaRivTFgt eeaRF1TYhm enaRLlTFqt eeaRLksFqn efnRLkTFan kaaRLgTYtn haaRMrTFmy haaRFkTFfn -RL-TF--WPvsf.lspe WPvqf.leps WP.lLflspt **FPssspvsas** WPrcmkqrpe WPrglkqrpe WPssvpvqpe WPssvlvnpe WP.lLflsps **FPsgspvsas** WPnpn.iLpq WPlnapvsae WPisniqpas Wiysv..nke Wiysv..nke WPdyahltpr WPdyahltpr FPagvpvser **FPagvpvser dlaragfyy** dLvanGFF.. **eLAeAGFFYt qLAsAGFYYv qLAsAgFYYv** qLArAGFYa **eLArAGFYY eLAsAGLLY**t **SLArAGFYYt** aLAkAGFYY. rMAasGFYY1 alAqAGLYYq qMAdAGFFYt qLArAGFYa] eLAsAGLYYt **SLAYAGFYYt tLArAGFLYt** tMAknGFYY. **tLArAGFLY** LA-AGFYY-G--D-V-CF-GegDkVkCFh GpgDrVaCFa GrsDeVrCaf GtwmeaeCdf kigDqVrCFh GygDntkCFy GqgDktrCFc GrnDdVkCFg GnsDdVkCFc GegDkVkCFh **GpgDrVaCFa** GigDqVqCFc GadDqVqCFc GvnDkVkCFc GvnDkVkCFc GegDtVrCFs nrlDhVkCvw GrgDeVrCaf GegDtVqCFs ChvridrWey Cdgg1kdWep CdgglrcWes CdgglrcWes CgggltdWkp CgggltdWkp CggklsnWep CggklknWep CggklknWep CglmldnWkl CglmldnWkı CkveitnWvr CniglrsWqk Cdgg1kdWep CggklsnWep ChaavdrWqy ChaaidrWqy CngviakWek CkveimrWke gDdpwveHak dDapwqqHar gDlvaerHrr eDepwieHak gDdpwvqHak sEdpweqHak sEdpwdqHak gDspiqkHkq gDsptekHkk gDsavgrHrk gDsavgrHrr gEdpaadHkk gDdpetdHkr eDvpweqHvi cDrawseHrr cDrawseHri nDnafeeHkr kDdamseHrr kDnamseHlr hfPkCpFI hfPnCpF1 cyPgCkY1 waPqCpFV waPqCpFV wydrCeYV widrCaYV wyPgCkYl wfPrCeYl ssP: ffPqCprV isPnCrFI wsP) wfPrCeF1 hfPnCfFV hfPnCfFv vsPnCrFI lyPsCsFI lyPsCrFV iCsmV kCqFV C-FV

Consensus

		SEQ ID NO:12 SEQ ID NO:13 SEQ ID NO:10 SEQ ID NO:4 SEQ ID NO:6 SEQ ID NO:8 SEQ ID NO:44
cp-iap diap m-xiap xiap hiap1 hiap2 consensus	cp-iap diap m-xiap xiap hiapl hiap2 consensus	cp-iap diap m-xiap xiap hiapl hiap2 consensus
101synnleatsqs.aslgstsk	vanGFFaTGk ARAGFLYTGe ARAGFYYTGv ARAGFYYTGv ARAGFYYTGv ARAGF-YTG-	1mtfnsfemtfnsfe mnivensiflmedstil
feng lens ptfpssvths nt.spmrns	wleaeChfCh gDtVqCFsCh gDtVrCFsCh nDkVkCFcCg nDkVkCFcCg	gtrtfvladt gsktcvpadi snlmksantf sdwtns.nkq
aagstnpgig atgstnsgig atgstnsgig thsllpgte fahslsptle	vribrweyGD aaiDrwqyGD aavDrwqyGD lmlDnwkrGD lmlDnwklGD D-WGD	mtelgMelEs nkdeEFveEF nkeeEFveEF elkyDLscEL kmkyDFscEL
ngqyksenCv ngqykvenYl ngqyfrgsYs hsslfsgsYs	qvaerHrrss SavgrHrris SavgrHrkvs SavgrHrkvs SptekHkkly SpiqkHkqly	vRLaTFgeWP nRLkTFanFP nRLkTFanFP yRMsTYstFP yRMsTYstFP -RL-TFFP
nhcgnvprsq gnrnpfapdR gsrdhfaldR nspsnpvnsR slppnplnsR	100 PiCsmVla PiCsmVla PnCrFIngFy PnCrFIngFy PsCrFVqsLn PsCsFIqnLV P-C-FI	1naPVSaedL sssPVSastL sgsPVSastL agvPVSersL agvPVSersL PVSL

Fig. 8 (page 1 of 5)

cp-iap m-xiap hiapi	cp-iap Podiap Pom-xiap Pohiap1 Pohiap1 Pohiap2 Pohiap22 Pohiap2 Pohiap	cp-iap diap es m-xiap ps hiapl as hiap2 as
	01 etMAKnGFY qaLakAGFY rELASAGLY rELASAGLY rELASAGFY tDLArAGFY sELArAGFY sELA-AGFY	51 sDnegnsvv pEthadyll sEthadyll nq vE
ttnniqnttt tgknldelgi tgknldelgi s.gvssdrnf sdavssdrnf englqdtsrY	YlGrsDeVrC YlnrlDhVkC YlnrlDhVkC YtGadDqVqC YtGigDqVqC YiGpgDrVaC YiGpgDrVaC YiGpgDrVaC Y-GD-V-C	dspescscpD rtgqvvDiSD rtgqvvDiSD rtgqvvDiSD EfSa DiSs
hdtiigPahP qpttl:PlrP qpttl:PlrP pnStnsPrNP pnStnlPrNP tvSNl	afCkveimrW vwCnGviakW FcCGGKLkNW FcCGGKLkNW FaCGGKLsNW FaCGGKLsNW F-CGGKL-NW	lrl lllaM tiyprnp.aM tiyprnp.aM lmrssypcpM srtnpysyaM M
kyAheaARvk kyAcvdARlr kyAcvdARlr aMAeyeARiv sMAdyeARif sMqthaARfk sMqthaARmr	kegEdpaaDH EknDnAfeEH EPcDrAwSEH EPcDrAwSEH EPkDnAmSEH EPkDdAmSEH	EEVRLTTF EEARLVTF CSEEARLKSF YCEEARLKSF INEDARLITF STEEARFITY EEARL-TF
R3 sFhnWPrcmk TftdWPiSnI TfgtWiys TFgtWiys TFftnWPsSvl TFfnWPsSvp	kkwaPqCPFV kRfFPqCPrV kRfFPnCfFV rRHFPnCfFV rRHFPnCfFV 1RHFPhCPF1 rRHFPhCPF1	ekWPv.sfLs kdWPn.pnit qnWPdyahLt qnWPdyahLt qtWP.ltfls hmWP.ltfLs

Fig. 8 (page 2 of 5)

Fig. 8 (page 3 of 5)

cp-iap diap m-xiap xiap hiap1 hiap2 consensus	cp-iap diap m-xiap xiap hiap1 hiap2 consensus
501	451 fddagagaal vsAqkDnteD vnAqkDsmqD lnAedEireE lnAedEkreE
psapfie psapfie ssQtsL ssQtsL vikqktQtsL iikqktQipL	Evreppe E Ererateeke Ererateema Ekekqaeema
nttvstaa pcqattskaa Q Q Qarelidtil Qarelidtiw Q	sndlllirkn
pvsepipe. svpipvadsi vkgniaatvf vkgnaaanif	rmalfqhltcrmalfqqltc
pakpqaaeav rnslqeaeav knclkeidst	500 vipildsllt vlpildnllk
	•

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Fig. 8 (sheet 4 of 5)

Ring Zinc Finger

cp-iap diap m-xiap xiap hiap1 hiap2 consensus	cp-iap diap m-xiap xiap hiapl hiap2 consensus
601 PCGHVVaCak PCGHLatCnq PCGHLVtCkq PCGHLVvCkd PCGHLVvCqe PCGHLV-C	551 sniskitdei lyehlfvqqd lyknlfvdkn
CALSVČKCPM CAPSVANCPM CAEAVČKCPM CAEAVČKCPM CAPSLrKCPi CAPSLrKCPi CAPSLrKCPi	qkmsvstpng
CRKIVtsvlk CRADIKGÍV CRADIKGÍV CYTVITÍNGK CYTVITÍKGÍV CRSTIKGTVI CRGIIKGTVI	nlsledenkq distedenkq distedQLRR eistedQLRR dlpvedQLRR glsledQLRR glsledQLRR
THE STANDS TO TH	veDskLCKIC LkDarLCKVC LqEEkLsKIC LqEEkLCKIC LpEErtCKVC LpEErtCKVC LqEErtCKVC
	YVEECIVCE LDEEVGVVF MDrnIaIVF MDrnIaIVF MDrEVSIVF MDKEVSVVF MDKEVSVVF

Fig. 8 (sheet 5 of 5)

Alignment of RZF (Ring Zinc Finger) Domains

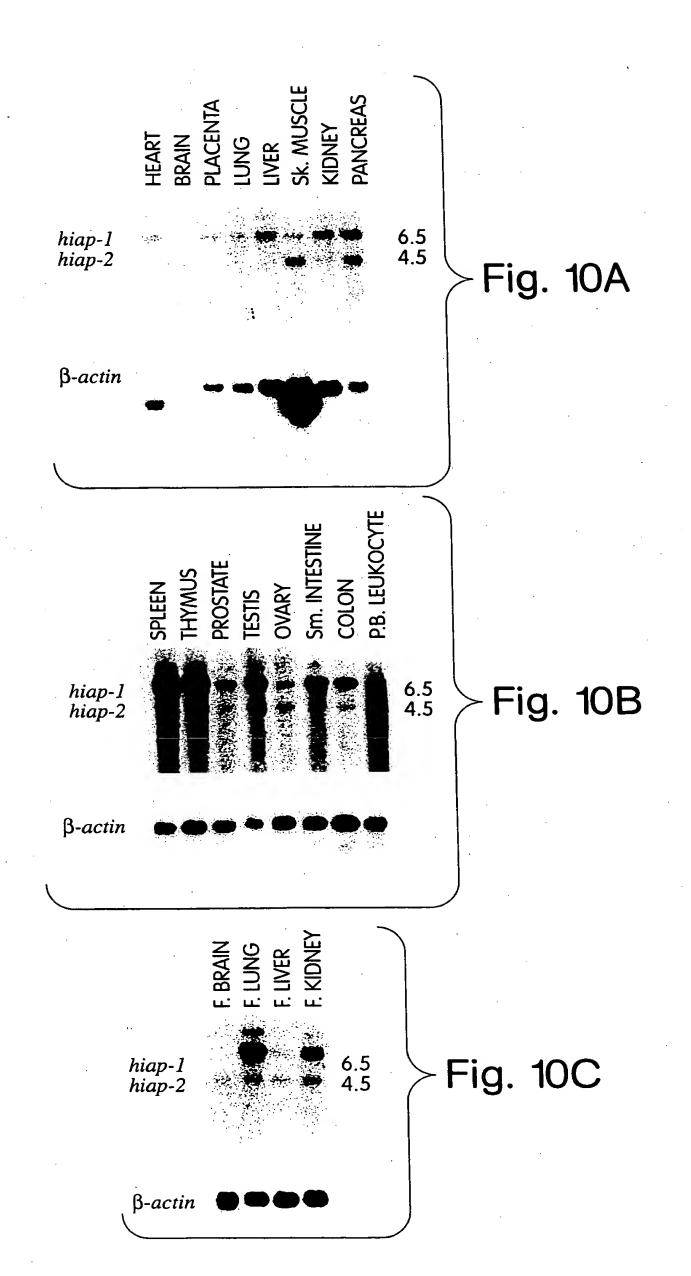
SEQ ID NO:32 I SEQ ID NO:33 I SEQ ID NO:34 I SEQ ID NO:35 SEQ ID NO:36 SEQ ID NO:37 SEQ ID NO:38 SEQ ID NO:38 SEQ ID NO:1	note on consensus:	Insect diap	xiap hiap1, hiap2 Mouse m-xiap	Baculovirus Cp_iap Op_iap Human
EqlrrlqEer tCKVCMdkev sVvFiPCGHl vvCqeCApel r. hiap1 m-xiap xiap diap Cp_iap Op_iap Op_iap consensus EqlrrlqEer tCKVCMdkev sIvFiPCGHl w CkdCApsl r. tckicpddrni aIvFfPCGHl w CkdCApsl r. tckicpddrni aIvFfPCGHl atCkqCAeav d. tvCfvPCGHl vtCkqCAeav d. tvCfvPCGHl atCnqCApev a. tckicpdev gVvFlPCGHl atCnqCApev a. tckicpdev d. tckicpdev vacakcAlsv d. tckicpdev d	The consensus line represents amino acids or very similar amino acids which are present in 6 of the 7 RZF sequences at each position. Capitalized residues are those that are in the consensus sequence.	Drosophilia IAP gene, not clearly a homologue of xiap or hiap	IAP on X chromosome two different human IAP genes mouse homologue of human xiap gene	Cydia pomonella Orgyia pseudotsugata

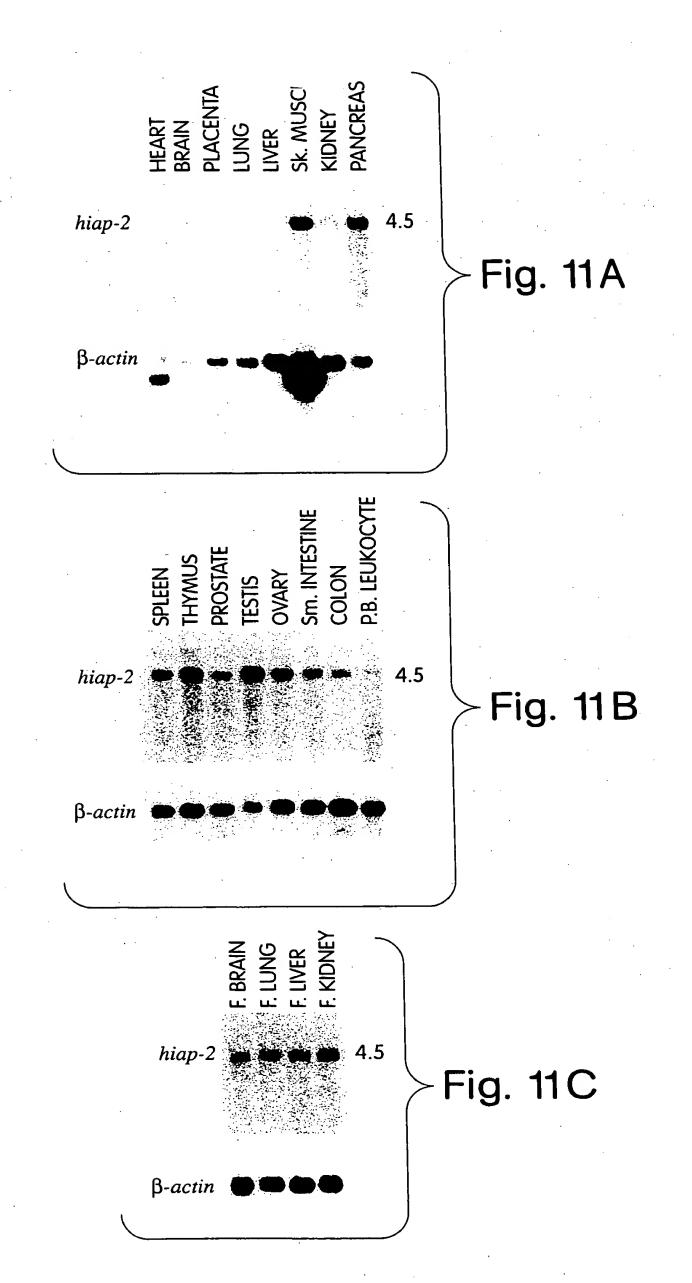
46 rkCPiC

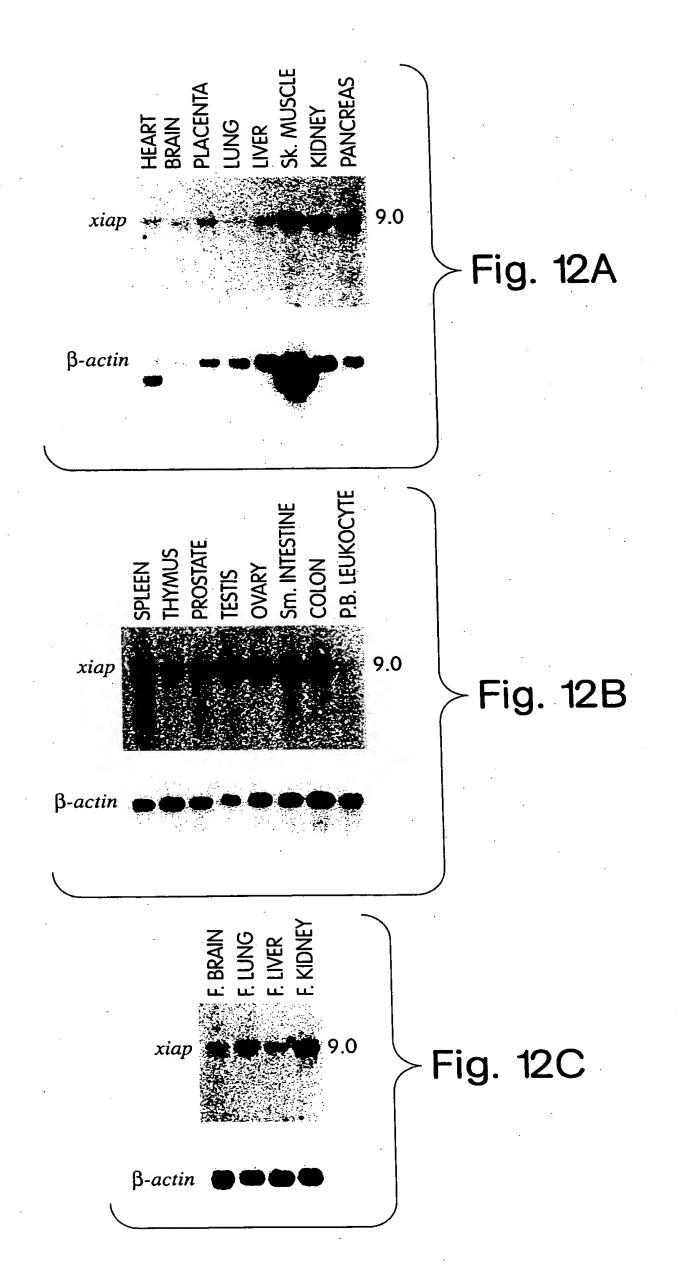
anCPmC dkCPmC

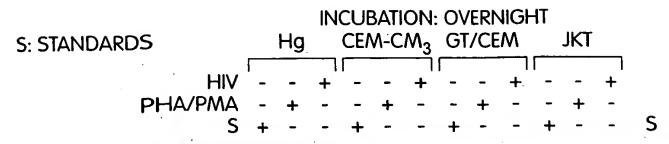
LLCPVC

rkCPiC dkCPmC









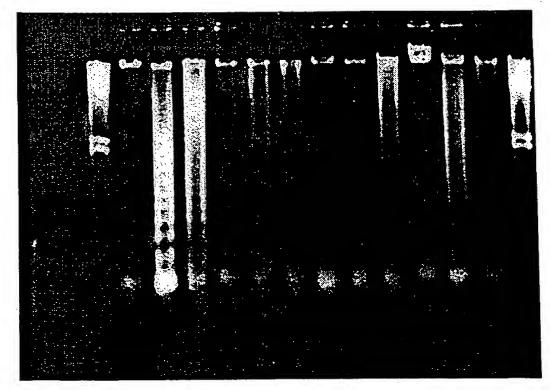


Fig. 13A

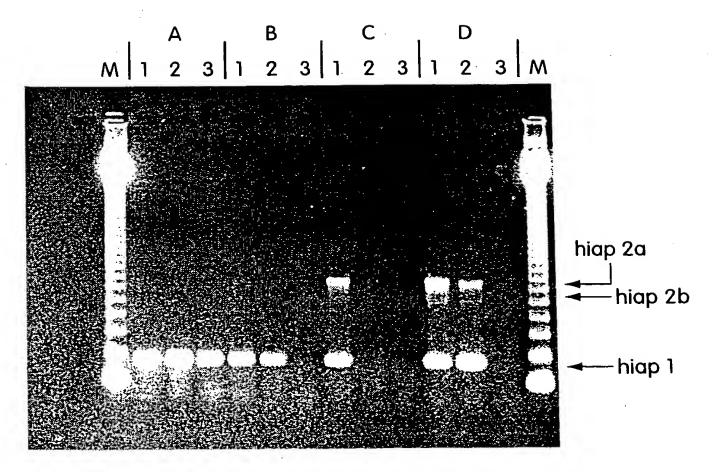


Fig. 13B

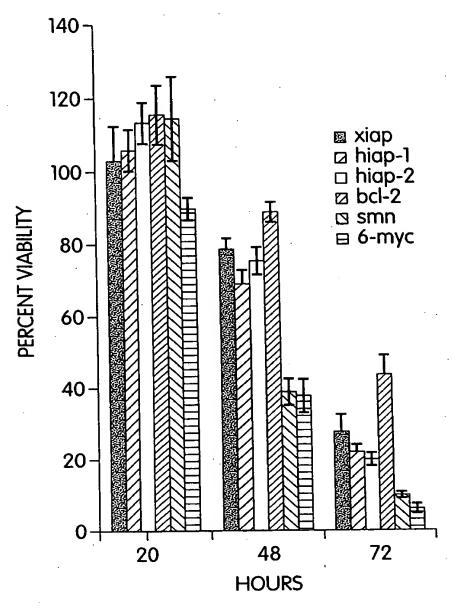


Fig. 14A

